

25X1A TO: [REDACTED]
General Precision Laboratories
Pleasantville, N. Y.

17 August 1959

25X1A FROM: [REDACTED]

SUBJECT: RADAN report covering the period of June and July 1959.

SUMMARY: The RADAN worked good on all flights during this period except when flown at low altitude (below 500 feet).

There were a total of 10 flights in June, most of those being test hops, on which the RADAN was used. The equipment worked good on all flights except two which were at low altitude. There were seven flights in July (5 being test hops). RADAN worked good on all flights (no low altitude flight).

One complete RADAN set was shipped back 20 July, for use with the test program in the ZI.

Another Magnetron arrived to give a total of five spare Magnetrons L3049. Three of the five subassemblies shipped back for repair in February arrived 31 July. It is hoped that the other two (audio amplifiers) will follow.

The low altitude problem continues to be the main difficulty at this location. Several fixes tried have failed to significantly improve the situation. Several other ideas will be tried this coming month, and some help and advice from CPL is also expected.

DESCRIPTION: The flights during this period were as follows:

10 June-A/C 099 - 1 hr 10 min - RADAN operated good
16 June-A/C 099 - 1 hr 50 min - RADAN operated good
22 June-A/C 097 - 4 hr 10 min - RADAN operated good
23 June-A/C 099 - 1 hr 30 min - RADAN operated good
25 June-A/C 097 - 1 hr 30 min - RADAN operated good
25 June-A/C 099 - 1 hr 40 min - RADAN operated good
25 June-A/C 099 - 4 hr 10 min - RADAN operated good
27 June-A/C 097 - 1 hr 05 min - RADAN operated good
27 June-A/C 099 - 1 hr - RADAN operated good

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☒ DECLASSIFIED
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29 June-A/C 097 - 11 hr 50 min - Didn't work when flown at
 29 June-A/C 099 - 1 hr 50 min - low altitude. At low alti-
 tude most of flight in vicini-
 ty of 200 to 500 feet.
 6 July-A/C 097 - 45 min - RADAN worked satisfactory
 9 July-A/C 099 - 1 hr 30 min - worked okay except for short
 time at low altitude.
 21 July-A/C 097 - 1 hr 45 min - worked good
 22 July-A/C 097 - 7 hr 05 min - worked good
 23 July-A/C 097 - 7 hr 55 min - worked good
 29 July-A/C 097 - 1 hr - worked good

Two AFC assemblies and one Main Loop assy. arrived at the
 end of July. Still awaiting delivery are the following:

2 ea Audio Amplifiers - Shipped back for repair in February.
 3 ea LA401 Power Supply Filter Choke
 2 ea LA403 Power Supply Filter Choke
 1 ea AFC Assembly (new assy.) to replace one which was damaged
 beyond repair in February.

Although the RADAN equipment has been in good shape since
 February, the performance can not be considered satisfactory
 until the equipment can be made to operate to at least 200
 feet altitude, and it would be better if even a lower altitude
 than this could be achieved.

FUTURE PLANS: Continued work on the low altitude problem with the objective
 of increasing the low altitude capability by about two hundred
 to three hundred feet.

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